

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/051840

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L9/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 089 487 A (ERICSSON INC) 4 April 2001 (2001-04-04) abstract paragraph '0013! - paragraph '0016! paragraph '0032! - paragraph '0054!; figures 6-12	1-10, 12-34
X	US 4 853 962 A (BROCKMAN ROBERT T) 1 August 1989 (1989-08-01) abstract column 2, line 66 - column 4, line 33; figures 3,4,7	1,9,21, 25,29, 30,34

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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A document defining the general state of the art which is not considered to be of particular relevance

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

1 December 2004

Date of mailing of the international search report

16/12/2004

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1089487	A	04-04-2001	US 5825889 A	20-10-1998
			EP 1089489 A2	04-04-2001
			EP 1089487 A2	04-04-2001
			AU 4417397 A	11-05-1998
			BR 9712309 A	31-08-1999
			CA 2268656 A1	23-04-1998
			CN 1437330 A	20-08-2003
			DE 69717489 D1	09-01-2003
			DE 69717489 T2	10-07-2003
			EP 0943195 A1	22-09-1999
			ES 2187819 T3	16-06-2003
			JP 2001502495 T	20-02-2001
			TW 384590 B	11-03-2000
			WO 9817028 A1	23-04-1998
US 4853962	A	01-08-1989	NONE	